

536, 773

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 July 2005 (21.07.2005)

PCT

(10) International Publication Number
WO 2005/067102 A1

(51) International Patent Classification⁷: H01R 9/05, 12/18

(74) Agent: SUGIMURA, Kosaku; 7F, Kazan Building, 2-4, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo 1000013 (JP).

(21) International Application Number:

PCT/JP2004/018688

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 8 December 2004 (08.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004-001524 7 January 2004 (07.01.2004) JP

(71) Applicant (*for all designated States except US*): DDK LTD. [JP/JP]; 1-5-1, Kiba, Koto-ku, Tokyo 1350042 (JP).

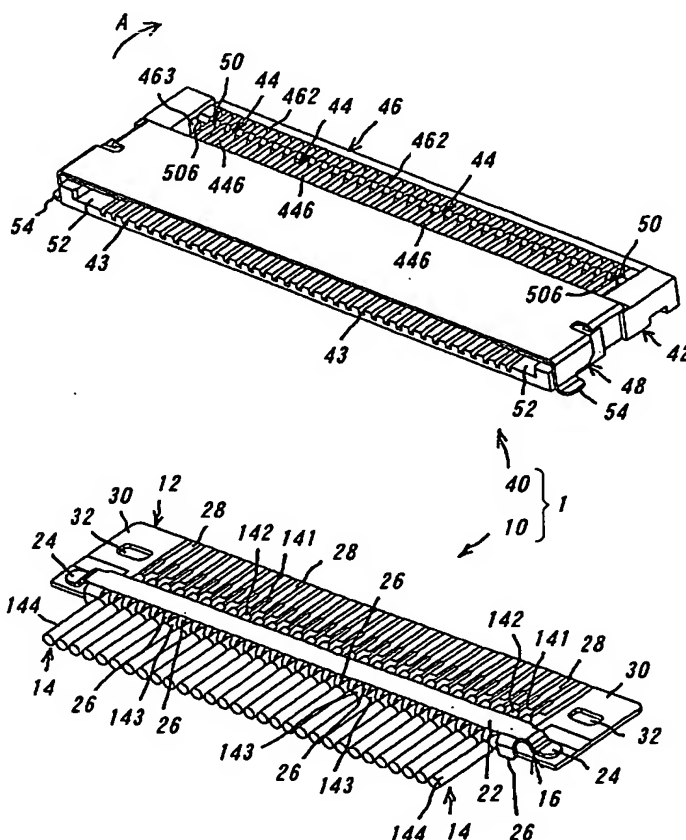
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): YAMADA, Akio [JP/JP]; c/o DDK LTD., 1-5-1, Kiba, Koto-ku, Tokyo 1350042 (JP). KATO, Hiromichi [JP/JP]; c/o DDK LTD., 1-5-1, Kiba, Koto-ku, Tokyo 1350042 (JP).

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

[Continued on next page]

(54) Title: ELECTRICAL CONNECTOR



(57) Abstract: An electrical connector includes a plug connector and a receptacle connector detachably fitted with each other. The plug connector comprises a plurality of coaxial cables, a flexible printed circuit board and a ground bar. Each of the coaxial cable has a center conductor, an insulator covering the center conductor, a braid as an external conductor covering the insulator, and a sheath covering the braid. The flexible printed circuit board has lands each connected to the center conductor of the coaxial cable and land portions to which the ground bar is connected. The ground bar has a main portion adapted to contact the braids of the coaxial cables, and fixed portions each positioned contiguously with the main portion and connected to the land portion. The electrical connector achieves the low height geometry of the plug connector and hence that of the receptacle connector and precludes any failed connection between the ground bar and the coaxial cables.

WO 2005/067102 A1